



ملخص

كيمياء عضوية (11)

لطلاب السنة التحضيرية بجامعة الملك خالد
بأبها – المحالة

2015

عمل تطوعي طلابي

لا تنسى زيارة المدونة <http://kku-a.blogspot.com>

و نشر المدونة بين الطلاب لتعم الفائدة



Homolytic cleavage C-C Bond gives

- a) electrophile b) nucleophile

- c) Free radicals d) a + b

ترجيح الإجابة

- الكسر التجزيئي للرابطة C-C يعطي
 (a) جزيئات الأيونات (b) جزيئات الجذور الحرة
 (c) شعور (d) (a + b)

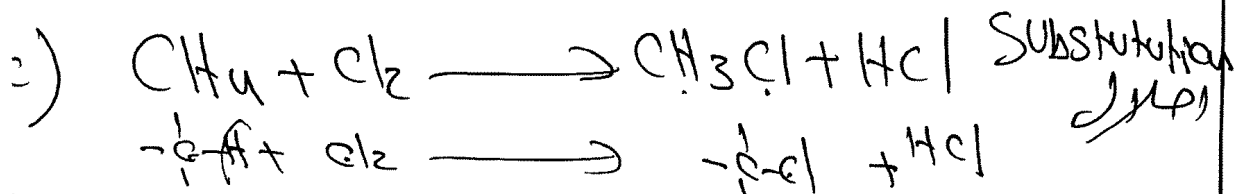
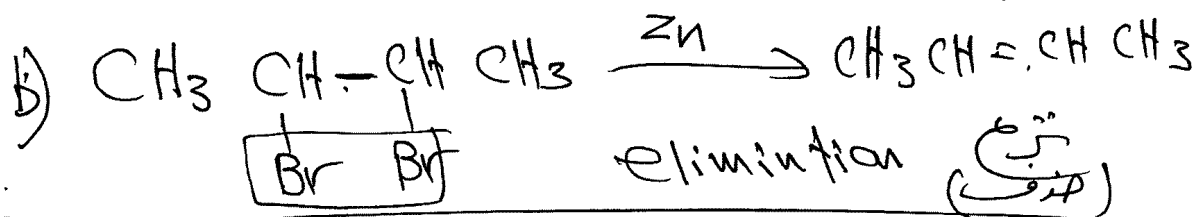
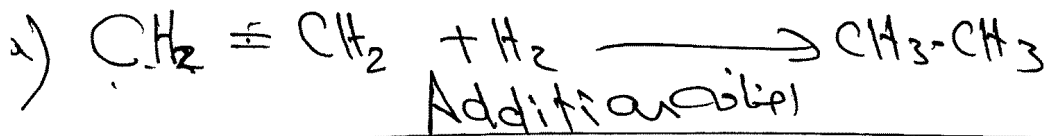
Heterolytic cleavage C-C Bond gives

- a) electrophile b) nucleophile
 c) a + b d) Free radicals

- الكسر غير التجزيئي للرابطة C-C يعطي
 (a) جزيئات الأيونات
 (b) جزيئات الجذور الحرة
 (c) شعور (d) (a + b)

② Types of Reactions ②

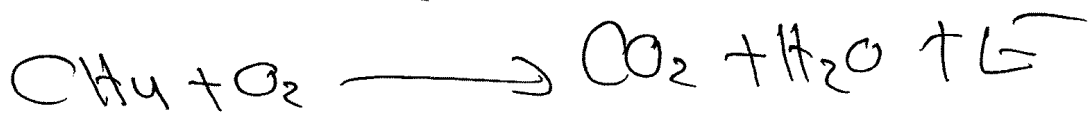
The Type of These reaction is



③ Reactions of Alkanes

Alkanes reacting with Free radical Substitution

④ Combustion of Alkanes - احتراق الهيدروكربونات



Combustion of methane gives

- a) CO_2 b) H_2O c) a + b
 d) none



Consider chlorination of propane (3)

What is the type of Reaction

Free radicals substitution

Cycloalkane and Alkenes are ^{CH₃}Isomers

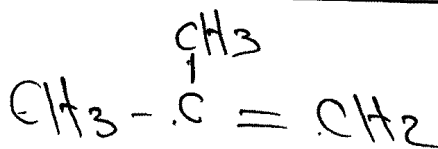
Functional group Isomers



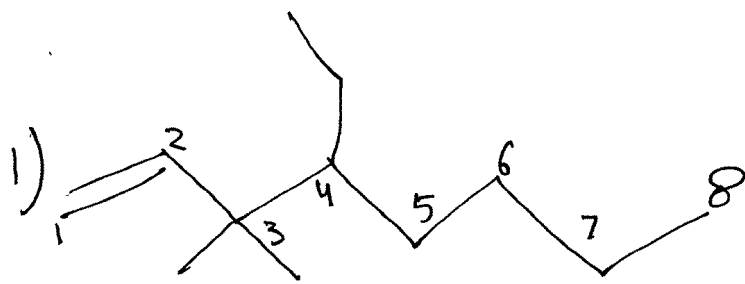
C_nH_{2n}

Common

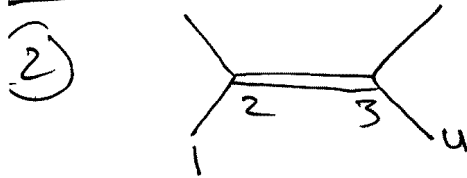
ylene



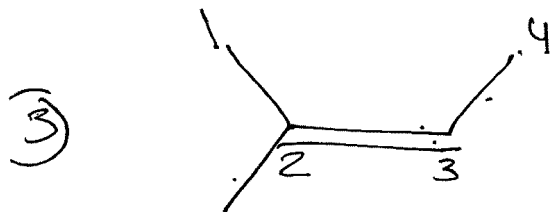
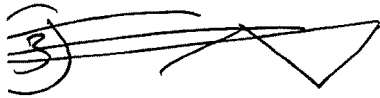
Isobutylene



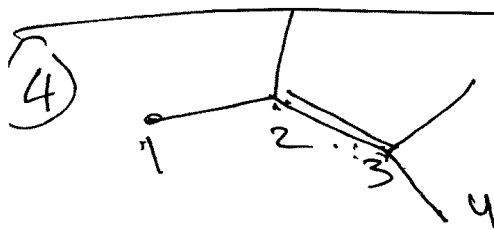
4-Ethyl-3,3-dimethyl-1-octene



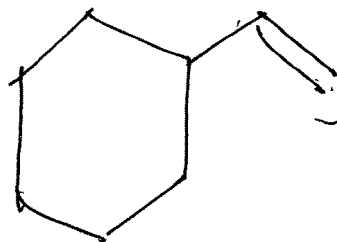
2,3-Dimethyl-2-butene



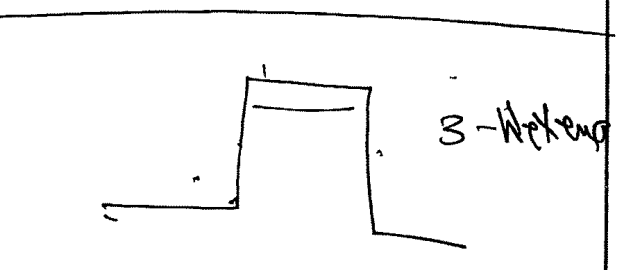
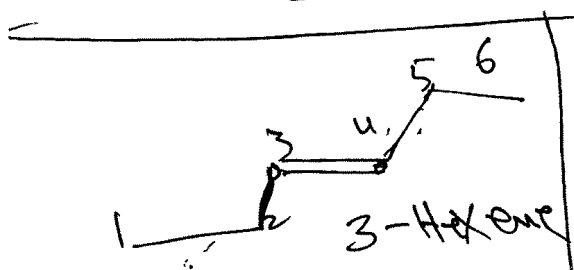
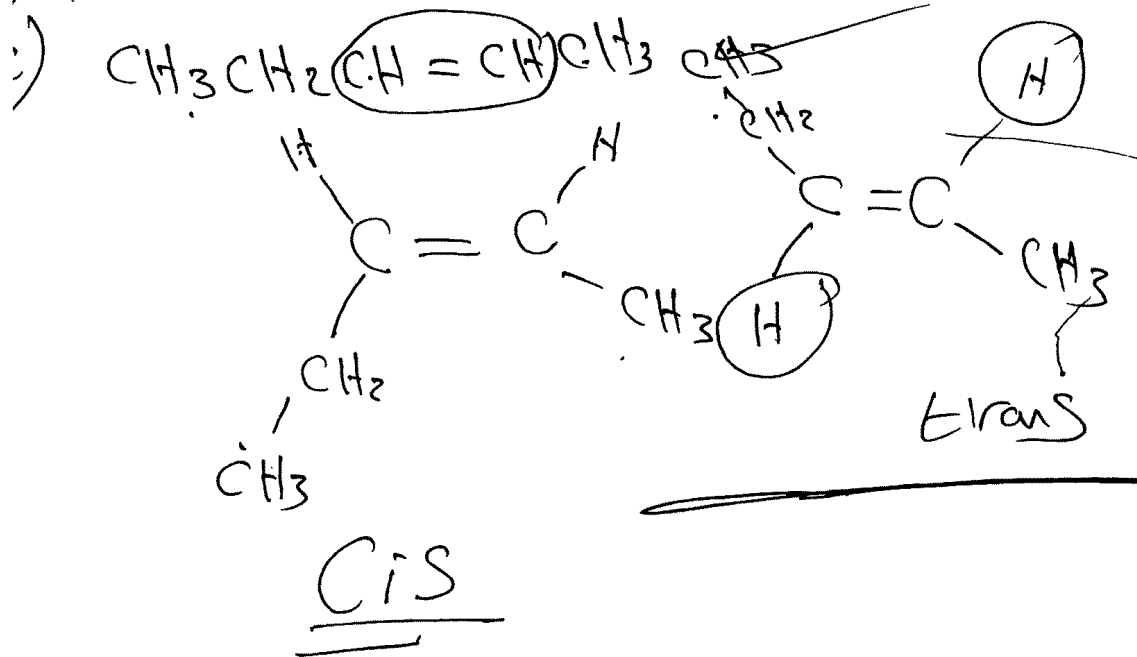
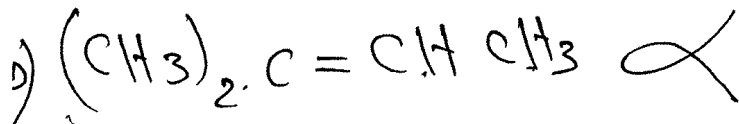
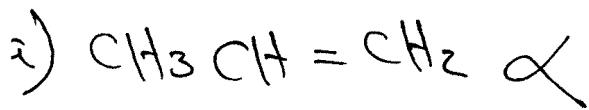
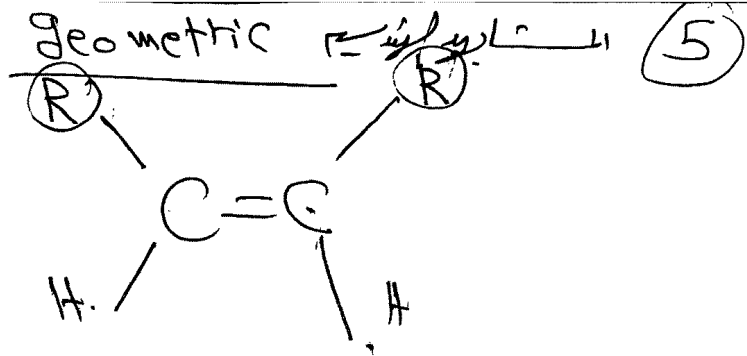
2-Methyl-2-butene



2,3-Dimethyl-2-butene



Ethenylcyclohexane



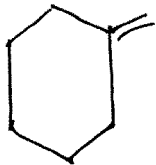
a) Different
b) Same

c) Structure Isomers
d) Geometrical //

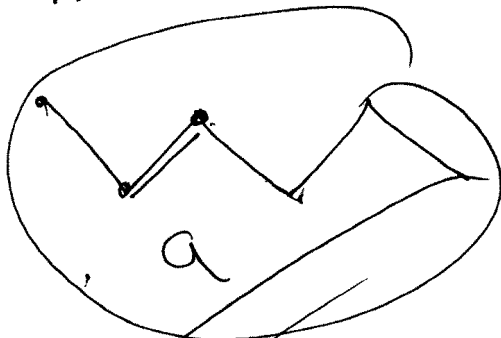


Which of the above compound may have Cis-Trans isomers

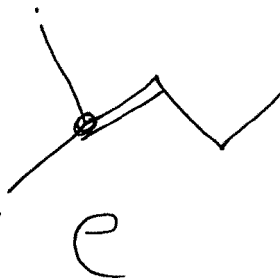
h



h



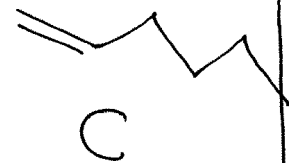
e



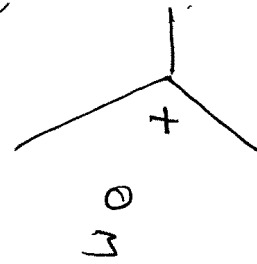
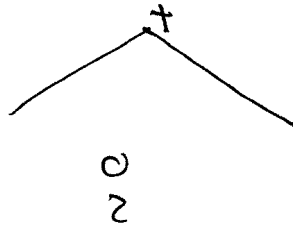
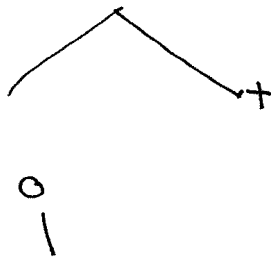
e

c

a

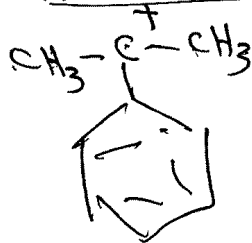
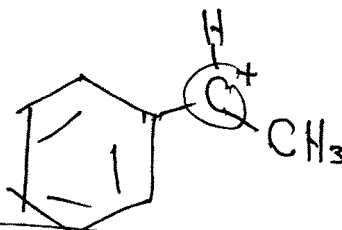
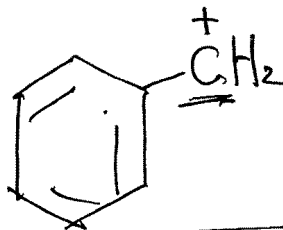
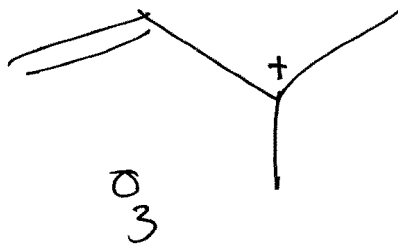
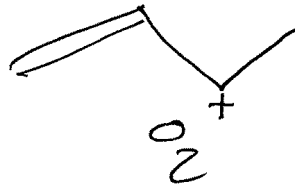
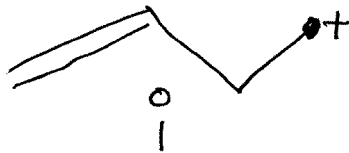


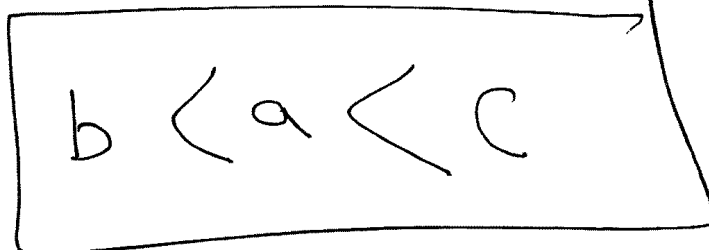
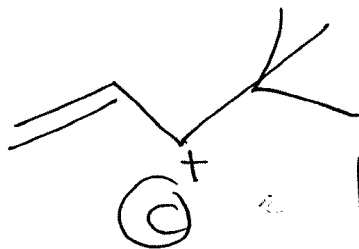
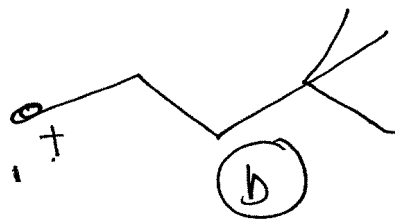
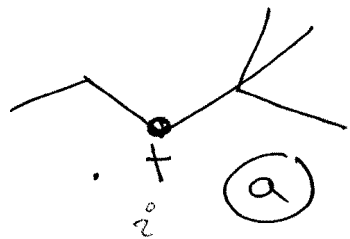
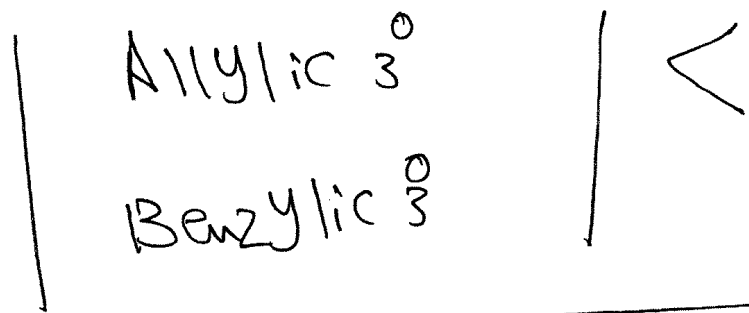
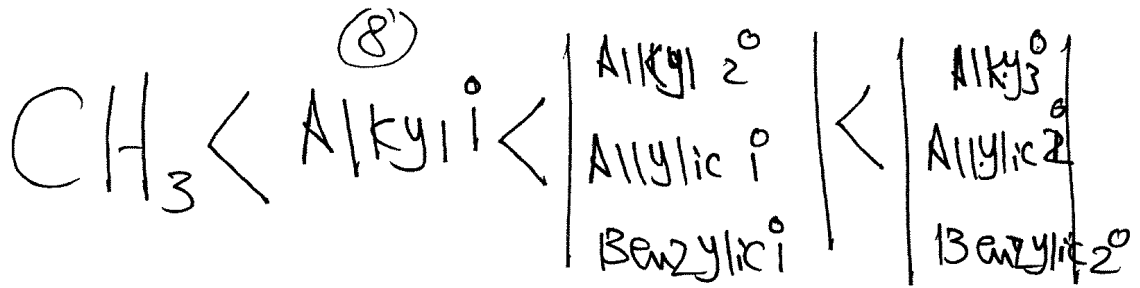
c

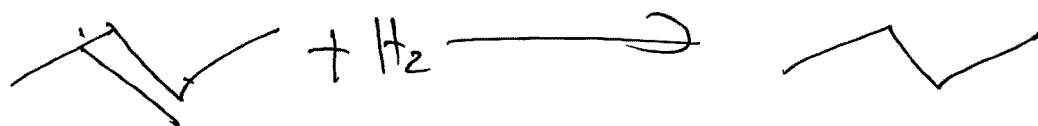
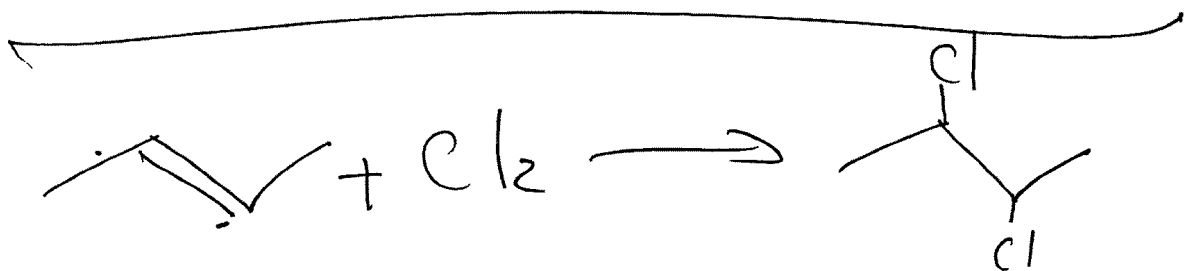
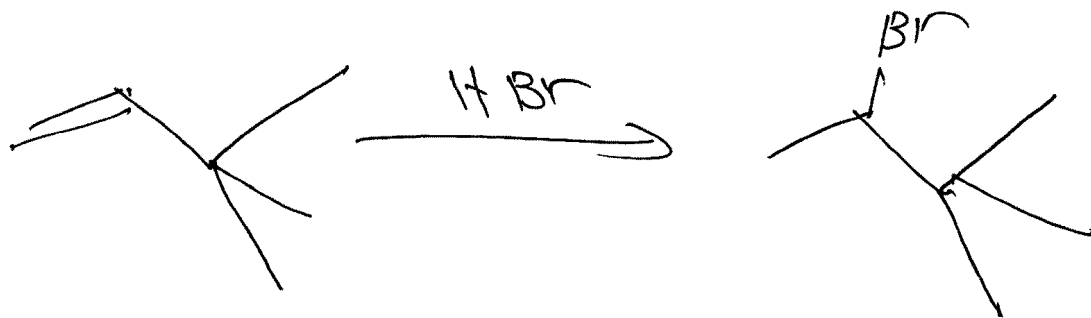
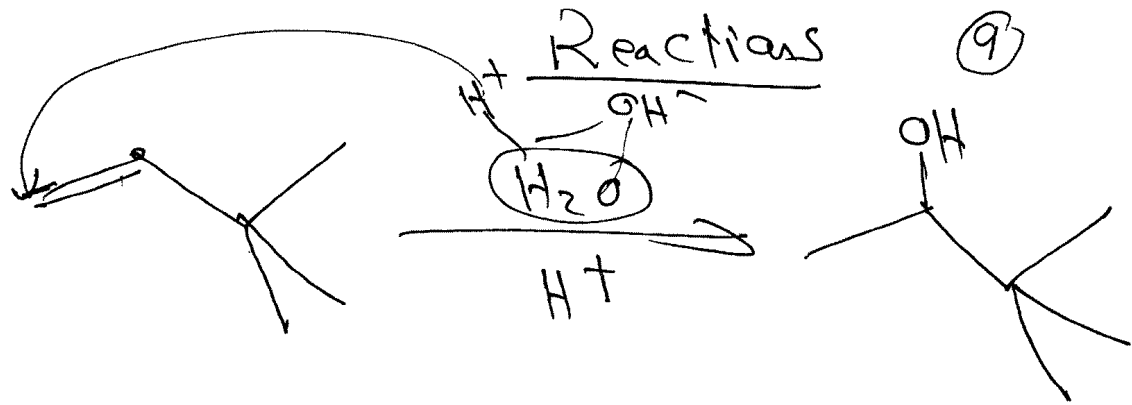


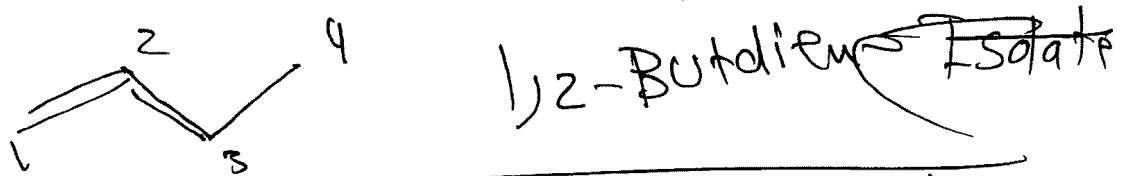
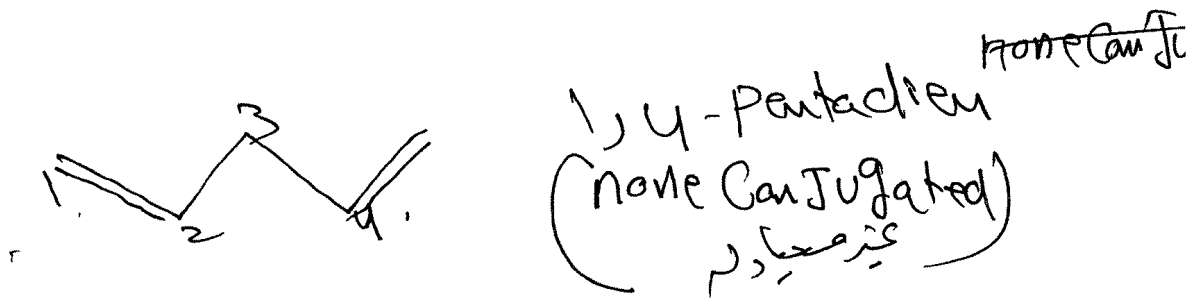
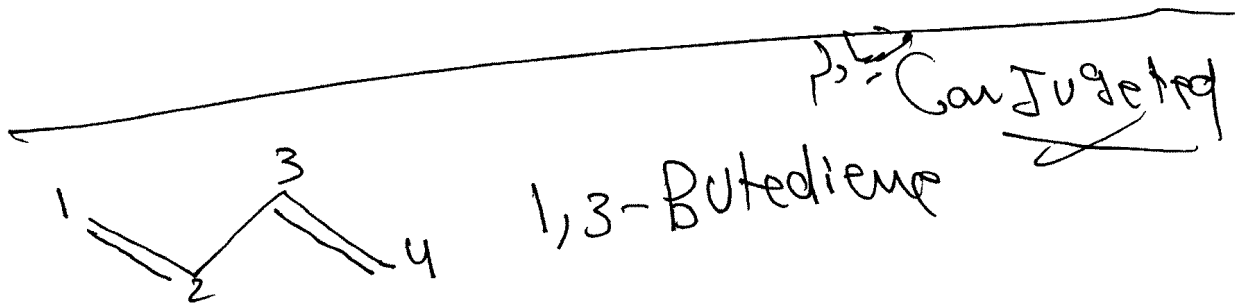
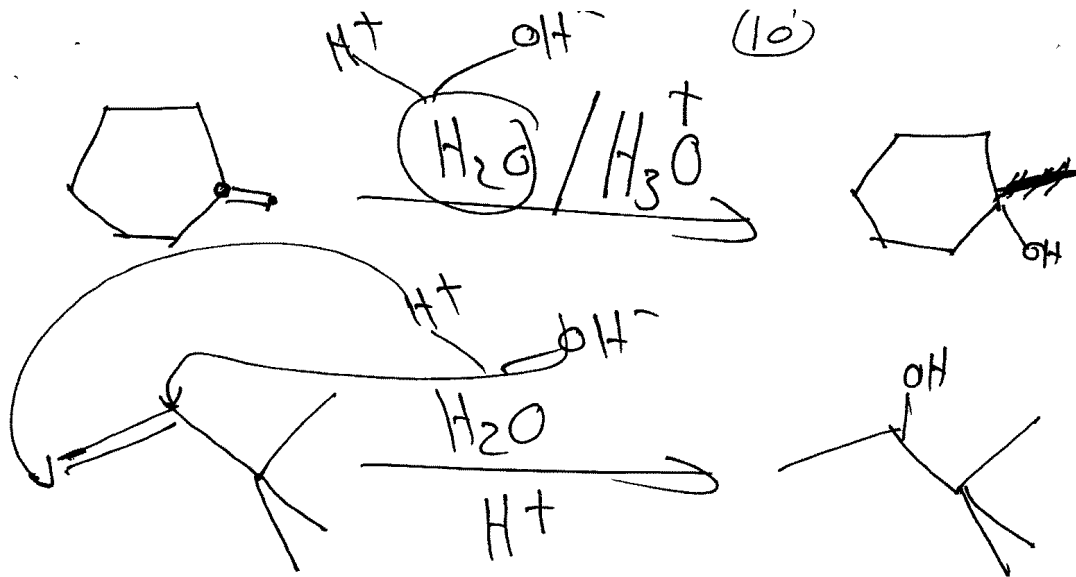
Stability increase

Allylic









Cumulated